

Notice of Allowability	Application No.	Applicant(s)	
	10/003,661	MURATA, MITSUHIRO	
	Examiner	Art Unit	
	James A. Fletcher	2621	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Application received 23 November 2005.
2. ☒ The allowed claim(s) is/are 3-12, 15-18 and 20.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| <ol style="list-style-type: none"> 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date <u>2 papers</u> 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | <ol style="list-style-type: none"> 5. <input type="checkbox"/> Notice of Informal Patent Application 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance 9. <input type="checkbox"/> Other _____. |
|---|--|

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with James Naughton on 20 December 2006.

Claims 3-6, 15-18, and 20 been amended as follows:

3. A recording-medium reproduction method for reading, by a pickup, reproduction data stored in a recording medium in units of frames and for reproducing it, comprising:

reading ~~the~~ start-position information of ~~the~~ a next frame to be read according to a reproduction order and that of a predetermined frame other than the next frame;

storing the read start-position information of the frames;

controlling the pickup according to the read start-position information of the next frame;

~~reading~~ determining whether the next frame can be read;

if the next frame can be read, reproducing the reproduction data of the next frame; and

if the next frame cannot be read, reading a frame other than the next frame according to the stored start-position information of the predetermined frame and reproducing the reproduction data of a frame which can be read;

wherein the start-position information of the predetermined frame is data indicating the reproduction order of cells in a digital video disk.

4. A recording-medium reproduction method for reading, by a pickup, reproduction data stored in a recording medium in units of frames and for reproducing it, comprising:

reading ~~the~~ start-position information of ~~the~~ a next frame to be read according to a reproduction order and that of a predetermined frame other than the next frame;

storing the read start-position information of the frames;

controlling the pickup according to the read start-position information of the next frame;

~~reading~~ determining whether the next frame can be read;

if the next frame can be read, reproducing the reproduction data of the next frame; and

if the next frame cannot be read, reading a frame other than the next frame according to the stored start-position information of the predetermined frame and reproducing the reproduction data of a frame which can be read;

wherein the start-position information of the predetermined frame is data indicating the reproduction order of PGs in a digital video disk.

5. (Currently Amended) A recording-medium reproduction method for reading, by a pickup, reproduction data stored in a recording medium in units of frames and for reproducing it, comprising:

reading ~~the~~ start-position information of ~~the~~ a next frame to be read according to a reproduction order and that of a predetermined frame other than the next frame;

storing the read start-position information of the frames;

controlling the pickup according to the read start-position information of the next frame;

~~reading~~ determining whether the next frame can be read;

if the next frame can be read, reproducing the reproduction data of the next frame; and

if the next frame cannot be read, reading a frame other than the next frame according to the stored start-position information of the predetermined frame and reproducing the reproduction data of a frame which can be read;

wherein the start-position information of the predetermined frame is Next_PGCM in a digital video disk.

6. A recording-medium reproduction method for reading, by a pickup, reproduction data stored in a recording medium in units of frames and for reproducing it, comprising:

reading ~~the~~ start-position information of ~~the~~ a next frame to be read according to a reproduction order and that of a plurality of types of predetermined frames other than the next frame;

storing the read start-position information of the next frame and that of the plurality of types of predetermined frames other than the next frame;

controlling the pickup according to the read start-position information of the next frame;

~~reading~~ determining whether the next frame can be read;

if the next frame can be read, reproducing the reproduction data of the next frame; and

if the next frame cannot be read, reading a frame other than the next frame according to the stored start-position information of the plurality of types of predetermined frames and reproducing the reproduction data of a frame which can be read.

15. A recording-medium reproduction apparatus for reading, by a pickup, reproduction data stored in a recording medium in units of frames and for reproducing it, comprising:

frame-start-position-information reading means for reading ~~the~~ start-position information of ~~the~~ a next frame to be read according to a reproduction order and that of a predetermined frame other than the next frame;

a memory for storing the information read by the frame-start-position-information reading means; and

reproduction control means for controlling the pickup according to the start-position information of the next frame, read by the frame-start-position-information reading means, for ~~reading~~ determining whether the next frame can be read, for

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reproducing the reproduction data of the next frame if the next frame can be read, and for reading a frame other than the next frame according to the start-position information of the predetermined frame stored in the memory, and reproducing the reproduction data of a frame which can be read if the next frame cannot be read;

wherein, as the start-position information of the predetermined frame, data indicating the reproduction order of cells in a digital video disk is used.

16. A recording-medium reproduction apparatus for reading, by a pickup, reproduction data stored in a recording medium in units of frames and for reproducing it, comprising:

frame-start-position-information reading means for reading ~~the~~ start-position information of ~~the~~ a next frame to be read according to a reproduction order and that of a predetermined frame other than the next frame;

a memory for storing the information read by the frame-start-position-information reading means; and

reproduction control means for controlling the pickup according to the start-position information of the next frame, read by the frame-start-position-information reading means, for ~~reading~~ determining whether the next frame can be read, for reproducing the reproduction data of the next frame if the next frame can be read, and for reading a frame other than the next frame according to the start-position information of the predetermined frame stored in the memory, and reproducing the reproduction data of a frame which can be read if the next frame cannot be read;

wherein, as the start-position information of the predetermined frame, data indicating the reproduction order of PGs in a digital video disk is used.

17. A recording-medium reproduction apparatus for reading, by a pickup, reproduction data stored in a recording medium in units of frames and for reproducing it, comprising:

frame-start-position-information reading means for reading ~~the~~ start-position information of ~~the~~ a next frame to be read according to a reproduction order and that of a predetermined frame other than the next frame;

a memory for storing the information read by the frame-start-position-information reading means; and

reproduction control means for controlling the pickup according to the start-position information of the next frame, read by the frame-start-position-information reading means, for ~~reading~~ determining whether the next frame can be read, for reproducing the reproduction data of the next frame if the next frame can be read, and for reading a frame other than the next frame according to the start-position information of the predetermined frame stored in the memory, and reproducing the reproduction data of a frame which can be read if the next frame cannot be read; wherein, as the start-position information of the predetermined frame, Next_PGCN in a digital video disk is used.

18. A recording-medium reproduction apparatus for reading, by a pickup, reproduction data stored in a recording medium in units of frames and for reproducing it, comprising:

frame-start-position-information reading means for reading ~~the~~ start-position information of ~~the~~ a next frame to be read according to a reproduction order and that of a plurality of types of predetermined frames other than the next frame;

a memory for storing the information read by the frame-start-position-information reading means; and

reproduction control means for controlling the pickup according to the start-position information of the next frame, read by the frame-start-position-information reading means, for ~~reading~~ determining whether the next frame can be read, for reproducing the reproduction data of the next frame if the next frame can be read, and for reading a frame other than the next frame according to the start-position information of the plurality of types of predetermined frames, stored in the memory, and reproducing the reproduction data of a frame which can be read if the next frame cannot be read.

20. A recording-medium reproduction apparatus for reading, by a pickup, reproduction data stored in a recording medium in units of frames and for reproducing it, comprising:

a frame-start-position-information reading section for reading ~~the~~ start-position information of ~~the~~ a next frame to be read according to a reproduction order and that of a plurality of types of predetermined frames other than the next frame;

a memory for storing the information read by the frame-start-position-information reading section; and

a reproduction control section for controlling the pickup according to the start-position information of the next frame, read by the frame-start-position-information

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reading section, for ~~reading~~ determining whether the next frame can be read, for reproducing the reproduction data of the next frame if the next frame can be read, and for reading a frame other than the next frame according to the start-position information of the plurality of types of predetermined frames, stored in the memory, and reproducing the reproduction data of a frame which can be read if the next frame cannot be read.

Claims 7-12 are not amended.

2. The following is an examiner's statement of reasons for allowance: The closest prior art, Ort (5,784,527) discloses skipping forward on a playback medium when an error is detected. However, Ort does not disclose determining an error condition in the stream read from the media by reading a start position information of a next frame and that of another predetermined frame, and attempting to read the next frame.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

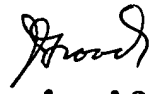
Any inquiry concerning this communication or earlier communications from the examiner should be directed to James A. Fletcher whose telephone number is (571) 272-7377. The examiner can normally be reached on 7:45-5:45 M-Th, first Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Groody can be reached on (571) 272-7950. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JAF
3 January 2007


James J. Groody
Supervisory Patent Examiner
Art Unit 262 2621